## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/751,451
Source:	IFWO
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## ENTERED



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**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/751,451**DATE: 09/28/2005

TIME: 07:58:08

Input Set : N:\Crf3\RULE60\10751451.raw.txt
Output Set: N:\CRF4\09282005\J751451.raw

```
1 <110> APPLICANT: Hoechst Marion Roussel
 2 <120> TITLE OF INVENTION: Novel monomer protein with bone morphogenetic activity
         and medicinal agent containing the same for preventing
         and treating diseases of cartilage and bone.
 5 <130> FILE REFERENCE: JH98K008 PCT SEQUENCES IN ENGLISH
 6 <140> CURRENT APPLICATION NUMBER: US/10/751,451
 7 <141> CURRENT FILING DATE: 2004-01-06
 8 <150> PRIOR APPLICATION NUMBER: US/09/701,121
 9 <151> PRIOR FILING DATE: 2000-11-20
10 <150> PRIOR APPLICATION NUMBER: 10-141379
11 <151> PRIOR FILING DATE: 1998-05-22
12 <160> NUMBER OF SEQ ID NOS: 4
13 <170> SOFTWARE: PatentIn Ver. 2.1
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 357
17 <212> TYPE: DNA
18 <213> ORGANISM: HUMAN
19 <220> FEATURE:
20 <221> NAME/KEY: CDS
21 <222> LOCATION: (1)..(357)
22 <223> OTHER INFORMATION: Relevant amino acid residues in SEQ ID NO 1 from 1
23
         to 82 and from 84 to 119 in WO 95/04819.
24
        Note: aminoacid residue 83 is alanine
25
        instead of cysteine.
26 <300> PUBLICATION INFORMATION:
27 <301> AUTHORS: HOTTEN, Gertrud
        NEIDHARDT, Helge
         PAULISTA, Michael
30 <302> TITLE: New growth/differentiation factor of the tgf-beta
        familie.
32 <310> PATENT DOC NO: WO 95/04819
33 <311> PATENT FILING DATE: 1995-02-16
34 <400> SEQUENCE: 1
35
         cca cta gca act cgt cag ggc aag cga ccc agc aag aac ctt aag gct
36
         Pro Leu Ala Thr Arg Gln Gly Lys Arg Pro Ser Lys Asn Leu Lys Ala
37
          1
                                              10
38
         ege tge agt egg aag gea etg eat gte aac tte aag gae atg gge tgg
39
         Arg Cys Ser Arg Lys Ala Leu His Val Asn Phe Lys Asp Met Gly Trp
40
                                          25
41
         gac gac tgg atc atc gca ccc ctt gag tac gag gct ttc cac tgc gag
                                                                            144
42
         Asp Asp Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu
43
                                      40
44
        ggg ctg tgc gag ttc cca ttg cgc tcc cac ctg gag ccc acg aat cat
                                                                            192
```

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```
Gly Leu Cys Glu Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His
45
46
              50
                                   55
47
         gca gtc atc cag acc ctg atg aac tcc atg gac ccc gag tcc aca cca
         Ala Val Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro
48
49
                               70
                                                   75
50
         ccc acc gcc tgt gtg ccc acg cga ctg agt ccc atc agc atc ctc ttc
                                                                             288
51
         Pro Thr Ala Cys Val Pro Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe
52
                          85
                                               90
53
         att gac tot god aac aac gtg gtg tat aag cag tat gag gad atg gtd
                                                                             336
54
         Ile Asp Ser Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val
55
                     100
                                          105
         gtg gag tcg tgt ggc tgt agg
56
                                                                             357
57
         Val Glu Ser Cys Gly Cys Arg
60 <210> SEO ID NO: 2
61 <211> LENGTH: 119
62 <212> TYPE: PRT
63 <213> ORGANISM: HUMAN
64 <400> SEQUENCE: 2
65
         Pro Leu Ala Thr Arg Gln Gly Lys Arg Pro Ser Lys Asn Leu Lys Ala
66
67
         Arg Cys Ser Arg Lys Ala Leu His Val Asn Phe Lys Asp Met Gly Trp
68
                                           25
69
         Asp Asp Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu
70
71
         Gly Leu Cys Glu Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His
72
                                   55
73
         Ala Val Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro
74
75
         Pro Thr Ala Cys Val Pro Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe
76
77
         Ile Asp Ser Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val
78
                                          105
79
         Val Glu Ser Cys Gly Cys Arg
80
82 <210> SEQ ID NO: 3
83 <211> LENGTH: 39
84 <212> TYPE: DNA
85 <213> ORGANISM: HUMAN
86 <220> FEATURE:
87 <221> NAME/KEY: misc_feature
88 <222> LOCATION: (1)..(39)
89 <223> OTHER INFORMATION: Sense PCR primer for mutation introducing.
90 <400> SEQUENCE: 3
         catgccatgg accccgagtc cacaccaccc accgcctgt
                                                                             39
93 <210> SEQ ID NO: 4
94 <211> LENGTH: 37
95 <212> TYPE: DNA
96 <213> ORGANISM: HUMAN
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97 <220> FEATURE:

98 <221> NAME/KEY: misc\_feature

99 <222> LOCATION: Complement((1)..(37))

100 <223> OTHER INFORMATION: Reverse PCR primer for mutation introducing.

101 <400> SEQUENCE: 4

102 cccaagettg catgeetgee ggtegactae ctacage

37

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/28/2005
PATENT APPLICATION: US/10/751,451 TIME: 07:58:09

Input Set : N:\Crf3\RULE60\10751451.raw.txt
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## Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

VERIFICATION SUMMARY

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PATENT APPLICATION: US/10/751,451

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